The Changing Continents

Geography of the future

As plates move geography will continue to change scientist predict in150million years all the continents will collide again

Geography of the future

Supercontinent cycle- process of supercontinents forming and breaking

Reshaping Earths crust

Continents contain large area of stable rock called cratons older than 540 mill. Years

Rocks within the cratons are called shields

Pangea

Pangea

Formed- 300 million years ago Was surrounded by Panthalassa (single ocean during time of Pangea)broke up 200 million years ago and started to form t...

Super continent cycle

Reshaping Earths crust

Rifting- processes in Which a continent breaks Apart

Rifting and Continental Reduction

Rifting and Continental Re…

Crust keeps heat from the mantle. That heat thins and weakens the lithosphere and it breaks apart.

Why super continents form

Why super continents form

Continents collide they don't subduct and they form new boundary

The Changing Continents

Terranes and continental growth

Terranes and continental…

Accretion is where terranes become part of a continent. Seamounts and atolls (coral islands)can also be a terrane

Terrane- piece of lithosphere that has unique geologic history

Contains rock, fossils that differ from neighboring terranes

Magnetic property differs from neighboring terrane.

Major faults at the boundaries

Effects of continental change

Effects of continental change

Climate can be affected by past movement in tectonic plates

Changes in life

Changes in life

As earth changed populations separated and evolved into new species

Changes in climate

Changes in climate

Ice used to cover most of the continent. Global temperature changed after ice sheet melted

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